$\begin{array}{c} \textbf{RADIOACTIVE WASTE} \\ \textbf{ (EC-0230)} \end{array} \\ \textbf{PROFILE RECORD} \\ \end{array}$

(11/21/95)

Ger	nerator Name: U.S. DOE Rocky Flats Environmental Technology Site	; Generator #/Waste Stream #: 9002-02	; Volume of Waste Materia	al: ~9578 cu meters			
Con	ntractor Name: Kaiser-Hill	;Waste Stream Name: Pondcrete and associated debris waste	;Delivery Date: TBD				
Che	eck appropriate boxes: Licensed YN x_; NORM/NA	ARM; LLRW x; MW x; MW Treated	; MW Needing Trumt x_;	DOE x ; 11e.(2)			
Ori	ginal Submission: Y N X_; Revision # 2;	Date of Revision 2/26/99		_			
Van	me & Title of Person Completing Form: Home Engineering	Services, Inc.	Phone: (303) 966-2718				
٩.	CUSTOMER INFORMATION:						
	GENERAL: Please read carefully and complete this forwaste. Should there be any questions while completing AT ENVIROCARE UNLESS THIS FORM IS COME	ng this form, contact Envirocare at (801) 532-13	30. WASTES CANNOT	BE ACCEPTED			
	1. GENERATOR INFORMATION						
	EPA ID # CO7890010526	EPA Hazardous Waste Number(s) (if applicable)	D006, F001, F002, F005, F	006, F007, F009			
	Mailing Address: RFETS Box 464, Bldg. 130, Golden, CC) 8040 2- 0464					
	Phone: (303) 966-7543	Fax (303) 966-3090					
	Location of Material (City, ST): Golden, CO		,				
	Generator Contact: Colburn Kennedy	Title Program Manager, Wast	Remediation and Operation	าร			
	Mailing Address (if different from above): same			<u> </u>			
	Phone: (303) 966-7543	Fax (303) 966-3090					
В.	WASTE PHYSICAL PROPERTIES (Should you have (801) 532-1330.)	e any questions while completing this section, contac	t Envirocare Customer Supp	ort Representative at			
	1. PHYSICAL DATA (Indicate percentage of material that will pass through the following grid sizes, e.g., 12" 100%, 4" 96%, 1" 74%, 1/4" 50%, 1/40" 30%, 1/200", 5%.) GRADATION OF MATERIAL:						
			12" <u>see</u>	%			
	2. DESCRIPTION: Color variable	Odor slight ammonia or organic	4" Attachmnt	%			
	Liquid Solid x Sludge	x Powder/Dust x	1" <u>B</u>	%			
			1/4"	%			
	3. DENSITY RANGE: (Indicate dimensions)2.0	- <u>140</u> S.G. lb./ft³ lb./yd³	1/40"	%			
			1/200"	%			
	4. GENERAL CHARACTERISTICS (% OF EAC)	ID.					
	Soil Building Debris Rubble x	Pipe Scale Tailings Process Wast	e x Concrete x	Plastic/Resin			
	Other constituents and approximate % contribution of	of each: see Attachment B					
	5. MOISTURE CONTENT: (For soil or soil-like ma	aterials.)					
	(Use Std Proctor Method ASTM D-698)	Optimum Moisture Content: s	ee%				
		Average Moisture Content: A	attachment B %				
	·	Moisture Content Range:	20 - 70	%.			
		Maria Contont Range.	* /0				

DESCRIPTION OF WASTE (Please attach a description of the waste with respect to its physical composition and characteristics. This description can be attached separately or included with the attachment for Item D.1.).

C. RADIOLOGICAL EVALUATION.

		Isotones	Concentration Banca	Weighted		Instance	Consentantian Barres	Weighted		
		Isotopes	Concentration Range (pCi/g)	Average (pCi/g)		Isotopes	Concentration Range (pCi/g)	Average (pCi/g)		
	a.	see	to		g.		to			
	b.	Attachment	to		h.		to			
	c.	C.1	to		i.		to			
	d.		to		j.		to			
	e.		to		k.		to			
	f.		to		1.		to			
2.		Amendmer	pactivity contained in the was nts Act of 1985 or in DOE O	rder 5820.2A, Cha	pter III? (Plea	se Circle) If y	es, check "LLRW" bloc	k on line 3 of page 1		
3.	Y		D MATERIAL: Is the was Please Circle)	ste material listed or	r included on a	n active Nucle	ar Regulatory Commissio	n or Agreement State		
		(If Yes) TY	YPE OF LICENSE: Source	e; Special N	uclear Materia	l; By-Pi	roduct; NORM	; NARM;		
	•	LICENSI	NG AGENCY:							
СН	EMI	CAL AND HAZ	LARDOUS CHARACTER	ISTICS						
1.	DE	SCRIPTION A	ND HISTORY OF WAST	E						
	involving the composition of the waste. Attach any product information or treatment standards. Attach any applicable analytical results involving composition of the waste. Attach any product information or Material Safety Data Sheets associated with the waste. If a category on this Waste P Record does not apply, describe why it does not.									
		Please describe the history, and include the following:								
	Plea	ise describe the n	ustory, and include the follow	vuig.						
	Plea Yx			_	ningled, dried,	or otherwise p	rocessed upon generation	or at any time thereas		
		N Was this w	aste mixed, treated, neutralizaste been transported.or other	ed, solidified, comr	• •	-		or at any time therea		
	Υ <u>x</u>	N Was this w	aste mixed, treated, neutraliz	ed, solidified, comr wise removed from	the location o	site where it v	was originally generated?	·		
	Y <u>x</u> Y	N Was this way N x Has this way N Was this w	aste mixed, treated, neutralize aste been transported or other aste derived from (or is the v	ed, solidified, comr wise removed from vaste a residue of) th	the location of	site where it v	was originally generated?	·		
	Y <u>x</u> Y	N Was this way N x Has this way N Was this w	aste mixed, treated, neutraliz	ed, solidified, comr wise removed from vaste a residue of) th	the location of	site where it v	was originally generated?	·		
	Y <u>x</u> Y Y <u>x</u> Y <u>x</u>	N Was this wan Mas this wan Mas this wan Mas this ma	aste mixed, treated, neutraliz aste been transported or other aste derived from (or is the v aterial been treated at any tin	red, solidified, communications are removed from vaste a residue of) the to meet any applications are to meet any applications.	the location of the treatment, sticable treatment	site where it voorage, and/or o	was originally generated?	te defined by 40 CFR		
2.	Y <u>x</u> Y Y <u>x</u> Y <u>x</u>	N Was this wan Mas this wan Mas this wan Mas this ma	aste mixed, treated, neutralize aste been transported or other aste derived from (or is the v	red, solidified, communications are removed from vaste a residue of) the to meet any applications are to meet any applications.	the location of the treatment, sticable treatment	site where it voorage, and/or o	was originally generated?	te defined by 40 CFR		
2.	Y <u>x</u> Y Y <u>x</u> Y <u>x</u>	N Was this wan Mas this wan Mas this wan Mas this ma	aste mixed, treated, neutraliz aste been transported or other aste derived from (or is the v aterial been treated at any tin	red, solidified, communications are removed from vaste a residue of) the to meet any applications are to meet any applications.	the location of the treatment, sticable treatment	site where it voorage, and/or o	was originally generated?	te defined by 40 CFR		
2.	Yx Y Yx Yx LIS	N Was this wan Max Has this wan Was this wan Has this material TALL KNOW	aste mixed, treated, neutralizaste been transported or other aste derived from (or is the vaterial been treated at any tin	ved, solidified, commented, solidified, commented from vaste a residue of) the to meet any application of the commented from th	the location of the treatment, sticable treatment.	r site where it voorage, and/or of t standard?	was originally generated? disposal of hazardous was WASTE CHARACTER c. Toxic	te defined by 40 CFR		
2.	Y <u>x</u> Y Y X X X A LIS a. d.	N Was this wan Mas this wan Was this wan Has this material Has the Has this material Has the H	aste mixed, treated, neutralize aste been transported or other aste derived from (or is the vaterial been treated at any time. (Y) (N) (Y) (N)	vaste a residue of) the to meet any application of the to meet any application of the to meet any application of the total composition of the tota	the location of the treatment, sticable treatment. NENTS OR H From" HW	r site where it vorage, and/or of t standard? AZARDOUS Y) (N)	was originally generated? disposal of hazardous was WASTE CHARACTER c. Toxic f. Dioxins	te defined by 40 CFR RISTICS (Y) (N) X X		
2.	Y <u>x</u> Y X Y <u>x</u> Y <u>x</u> LIS a. d. g.	N Was this wan Mas this wan Was this wan Has this material Hulls of the Cyanides Pesticides	aste mixed, treated, neutralize aste been transported or other aste derived from (or is the vaterial been treated at any time. (Y) (N) (Y) (N) (X) (X) (X) (X) (X) (X) (X)	vaste a residue of) the to meet any application of the to meet any application of the composition of the com	the location of the treatment, sticable treatment. NENTS OR H From" HW	orage, and/or of t standard? AZARDOUS Y) (N) x x x	was originally generated? disposal of hazardous was WASTE CHARACTER c. Toxic f. Dioxins i. PCBs	te defined by 40 CFR RISTICS (Y) (N) X X X		
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2.	YxYYX LISS a. d. g. j. m. p. s. v.	N Was this way N Has this way N Was this way N Has this may T ALL KNOW Listed HW Cyanides Pesticides Explosives Organics Ignitable Antimony Nickel	aste mixed, treated, neutralizaste been transported or other aste derived from (or is the vaterial been treated at any ting and the second of	vaste a residue of) the to meet any application of the composition of	the location of the treatment, stricable treatment. NENTS OR H From" HW G CS ———————————————————————————————	orage, and/or of t standard? AZARDOUS Y) (N) X X X X X X	was originally generated? disposal of hazardous was WASTE CHARACTER c. Toxic f. Dioxins i. PCBs l. Solvents o. Infectious r. Reactive u. Copper x. Vanadium	te defined by 40 CFR RISTICS (Y) (N)		
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THE SHARE

oo. Other Known or Possible Materials or Chemicals

nn. Chelating Agents

kk. Fluoride

mm. Fuel

see Attachment D.2

Barium Attachmnt M Cadmium D.3 S Chromium S	/kg) or TCLP (mg/l) Mercury	Organics (circle one)	Total (mg/kg)	or TCLP (mg/l)			
Barium Attachmnt M Cadmium D.3 S Chromium S							
Cadmium D.3 S Chromium S	Mercury	see					
Chromium S		Attachment					
	Selenium	D.3					
	Silver						
Copper Z				 •			
ANALYTICAL RESULTS FO needed).	R REQUIRED PARAMET	ERS: (Please transcribe	results on the blank spa	ces provided. Atta	ch additional sheets if		
Soil pH 9-14	Paint Filter Pass	Cyanide	<10 (total)	Sulfide <u>r</u>	non-detect		
	Liquids Test (Pass/F	ail) Released	mg/kg	Released	mg/kg		
IGNITABILITY (40 CFR 261.	21[a][2],[4].)						
Flash Point ≥ 160	°F°C	Is the	waste a RCRA oxidizer	? Y N2	<u>c</u>		
					•		
CHEMICAL COMPOSITION complete, if necessary.)	(List all known chemical co	mponents and circle the a	pplicable concentration	dimensions. Use a	ttachments to		
Chemical Component	Concentration	Chemi	cal Component	Concentration	•		
see	% mg/kg				% mg/kg		
Attachment	% mg/kg	***			% mg/kg		
D.6	% mg/kg			f			
	% mg/kg			· 	mg/kg		
TREATMENT STANDARDS. (FOR MIXED WASTE ONLY). Describe the waste's applicable treatment standards. Include the EPA Hazardous Waste Numbers and information with respect to the waste's subcategory (e.g., low mercury subcategory), treatability group (e.g. non-wastewaters), treatment standards and concentrations or technology (e.g. 5.7 mg/l selenium extract or INCIN (incineration)), and any applicable exemptions, exclusions variances, extension, allowances, etc. The following format is suggested. If additional space is needed, provide an attachment to this profile record.							
EPA HW Subcategory Number	Treatability (Concent	rations or	Extensions or Ex	clusions		
see	· · · · · · · · · · · · · · · · · · ·			[Y N]			
Attachment D.7	<u> </u>			[Y N]			
ratory for the following analytical palytical results and QA/QC docur/IROCARE AND LABORATOR ALL WASTE TYPES: CHEMMINIMUM ADDITIONAL AMAIL Non-RCRA Waste (Non Mitch Mixed Waste: Results to sho	parameters unless nonapplica mentation. (CAUTION: PR RY REGARDING UTAH I MICAL ANALYSIS: Soil pi NALYTICAL REQUIRED xed Waste, i.e. LLRW, NOR ow why the waste is hazardon	bility of the analysis for the IOR TO ARRANGING LABORATORY CERT! If (9045), Paint Filter Liquing FOR: M): TCLP including the standard the following analysis	ne waste can be stated as FOR LABORATOR IFICATIONS. uids Test (9095); React 32 organics, 8 metals, a tical results:	nd justified in atlact Y ANALYSES, C ivity (cyanide and s nd copper (Cu) and	hed statements. Attack HECK WITH sulfide). I zinc (Cn).		
	Flash Point	Flash Point 160	Flash Point 160	Flash Point 160	Flash Point 160		

E.

	•		والمصابع والمواق				
2.	REQUIRED RADIOLOGICAL ANALYSES: Please obtain sufficient samples to adequately determine a range and weighted average of activity is the waste. Have a sufficient number of samples analyzed by gamma spectral analysis for all natural and man-made isotopes such that they support the range and weighted average information for the waste stream that will be recorded in item D.1. If Uranium, Plutonium, Thorium, or other non-gamme emitting nuclides are present in the material, have at least (1) sample evaluated by radiochemistry to determine the concentration of these additional contaminants in the material.						
3.	PRE-SHIPMENT SAMPLES OF WASTE TO ENVIROCAL	RE					
	Once permission has been obtained from Envirocare, please form must be included with the sample containers. These san tolerances and may be analyzed for additional parameters. Send a United Parcel Post (UPS) or Federal Express to:	nples will be used to establish the waste	's incoming shipment acceptance parameter				
	Envirocare of Utah, Inc., Attn: Sample Control, Tooele County, 1 For Federal Express Use Zip Code 84083). Phone: (801) 521-96		9				
4.	LABORATORY CERTIFICATION INFORMATION. Plea	se indicate below which of the following	g categories applies to your laboratory data.				
	a. Note analytical data that is to represent mixed waste mudata in item C.1. must be from a Utah-certified laborato		PA. All radiological data used to support the				
	The laboratory holds a current certification for the applicable chemical or radiologic parameters from the Utah Department Health insofar as such official certifications are given.						
	GENERATOR'S STATE CERTIFICATION. The laboratory holds a current certification for the applicable chemical parameters from the generator's State insofar as such official certifications are given, or						
	GENERATOR'S STATE LABORATORY REQUIREMagency for chemical laboratories, or:	IENTS. The laboratory meets the requi	rements of the generator's State or cognizant				
	If using a non-Utah certified laboratory, briefly describe the g determination that the laboratory used meets those requireme specific, or involve CLP or other QA data packages. Note: No	nts, especially in terms of whether the re When process or project knowledge of th	quirements are parameter specific, method				
	b. For analytical work done by Utah-certified laboratories, analyzed and each method used for analyses required by this		s current certification letter for each parameter				
	c. For analytical work done by laboratories which are not U	Utah-Certified, please provide the fol	lowing information:				
	State or Other Agency Contact Person	Generator's State	Telephone Number				
	Lab Contact Person	Laboratory's State	Telephone Number				
	Late Compet I cisum	Laboratory's State	rerephone radinger				

F. CERTIFICATION

GENERATOR'S CERTIFICATION OF REPRESENTATIVE SAMPLES, ANALYTICAL RESULTS FROM QUALIFIED LABORATORIES, USE OF APPROVED ANALYTICAL AND SAMPLING METHODS, AND ARRANGEMENTS FOR TREATMENT OR NON-PROHIBITED DISPOSAL. I certify that samples representative of the waste described in this profile were or shall be obtained using state- and EPA-approved sampling methods. I also certify that where necessary those representative samples were or shall be provided to Envirocare and to qualified laboratories for the analytical results reported herein. I further certify that the waste described in this record is not prohibited from land disposal in 40 CFR 268 (unless prior arrangements are made for treatment at Envirocare) and that all applicable treatment standards are clearly indicated on this form. I also certify that the information provided on this form is complete, true and correct and is accurately supported and documented by any laboratory testing as required by Envirocare of Utah, Inc. I certify that the results of any said testing have been submitted to Envirocare of Utah, Inc.

Generator's Signature (Sign for the above certification).

Title Program May Date 3/26/99